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TI Polysaccharide from molasses having anti-cancer activity

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AB Molasses (1.2 kg.) is dialyzed into running H<sub>2</sub>O for 48 hrs. using cellophane membrane, the residual solution in the membrane is concentrated to 600

ml. in vacuo, and filtered. To the filtrate is added 500 g. (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, the whole is kept overnight, and centrifuged. The resulting solid is dissolved in 1 l. H<sub>2</sub>O, dialyzed into running H<sub>2</sub>O to remove salts, concentrated, 50 ml. AcOH added, filtered, the filtrate is passed through a column of 200 ml. Duolite S-30 previously treated with 1 N AcOH, the resulting solution is concentrated in vacuo to 30 ml., and 120 ml. MeOH added to give 550 mg. pale yellow powder (I), nonhygroscopic, colorizing at 250° and decomposing at 280°. I is soluble in H<sub>2</sub>O but insol. in most of organic solvents. I is a polysaccharide mainly composed of hexose and pentose but containing no amino sugars. I inhibits growth of Ehrlich's cancer and sarcoma. I acetate, m. 165-70°, insol. in H<sub>2</sub>O, does not exhibit anti-cancer activity. Cf. following abstract